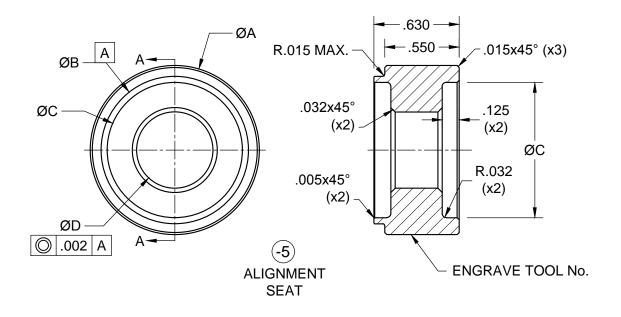
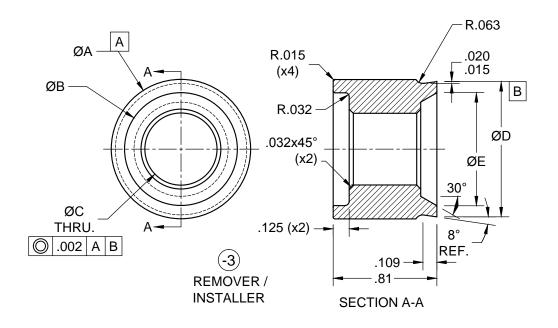


		_	-7 HEX HEAD CA	P SCREW (C	QTY. 1)		-9 WASHER		-11 NUT]		
BEARING #	TOOL#	BRG. ID.	SCREW SIZE	SHANK LENGTH	MAT.	QTY.	TYPE	QTY.	TYPE			
MS14103-5	RBIR4103-5	.3125	5/16-18 UNC x 3-1/4	3/4 or less	GR. 8	1	Ø5/16 ID. MACH.	1	5/16-18 UNC SW. FLG. NUT MCMASTER-CAR #90477A030	1		
MS14103-6	RBIR4103-6	.375	3/8-16 UNC x 3-1/4	3/4 or less		1	Ø3/8 ID. MACH.	1	3/8-16 UNC SW. FLG. NUT MCMASTER-CAR #90477A031] RED BARN MACHINE		
MS14101-7	RBIR4101-7	.438	7/16-14 UNC x 3-1/4	3/4 or less		2	Ø7/16 ID. MACH.	1	7/16-14 UNC GRADE 8			
MS14103-7	RBIR4103-7	.438	7/16-14 UNC x 3-1/2	7/8 or less		2	Ø7/16 ID. MACH.	1	7/16-14 UNC GRADE 8	LUKIADEE DEAKTING TIASTALE		
MS14101-8	RBIR4101-8	.500	1/2-13 UNC x 3-1/2	13/16 or less		1	Ø1/2 ID. MACH.	1	1/2-13 UNC SW. FLG. NUT MCMASTER-CAR #90477A033	& REMOVAL TOOLS		
MS14103-8	RBIR4103-8	.500	1/2-13 UNC x 3-3/4	15/16 or less		1	Ø1/2 ID. MACH.	1	1/2-13 UNC SW. FLG. NUT MCMASTER-CAR #90477A033	$\begin{bmatrix} D^{WG} & NO. \end{bmatrix}$ -7 ·& -9 & -11 FASTENER PARTS $\begin{bmatrix} REV \\ SA \end{bmatrix}$		
MS14101-9	RBIR4101-9	.563	9/16-12 UNC x 3-1/2	7/8 or less		2	Ø9/16 ID. MACH.	1	9/16-12 UNC GRADE 8	UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT		
MS14103-9	RBIR4103-9	.563	9/16-12 UNC x 3-3/4	1 or less		2	Ø9/16 ID. MACH.	1	9/16-12 UNC GRADE 8	DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS APPROVED APPROVED DECIMALS		
MS14101-10	RBIR4101-10	.625	5/8-11 UNC x 4	15/16 or less		1	Ø5/8 ID. MACH.	1	5/8-11 UNC SW. FLG. NUT MCMASTER-CARR #90477A035	LXXX + .005 FRACTIONS : 4/22 TREAT		
MS14103-10	RBIR4103-10	.625	5/8-11 UNC x 4-1/4	1-1/16 or less	↓	1	Ø5/8 ID. MACH.	1	5/8-11 UNC SW. FLG. NUT MCMASTER-CARR #90477A035			
					'					1. BREAK ALL SHARP EDGES		
										.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
										SCALE NTS DATE 1-21-08 SHEET 5 of 5		

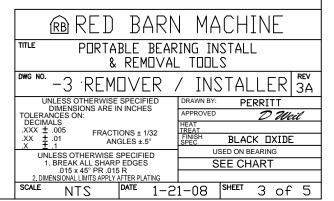


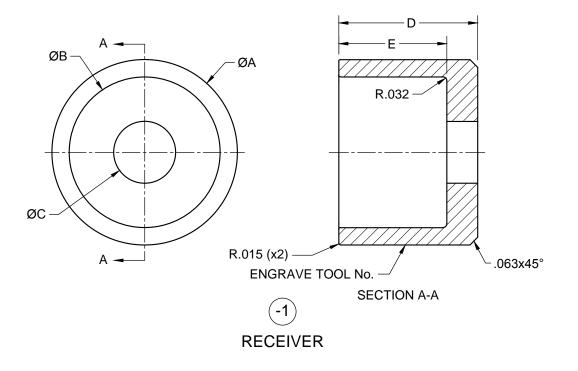
BEARING #	TOOL#	BRG. OD.	ØA +.000 010	ØB +.001 003	ØC +.000 010	ØD +.003 000	MATERIAL		
MS14103-5	RBIR4103-5	.6875	.938	.680	.585	.313	Ø1 x 7/8 4140 Q&T RND.BAR		
MS14103-6	RBIR4103-6	.8125	1.062	.805	.766	.375	Ø1-1/8 x 7/8 4140 Q&T RND.BAR		
MS14101-7	RBIR4101-7	.9062	1.156	.898	.672	.438	Ø1-1/4 x 7/8 4140 Q&T RND.BAR		
MS14103-7	RBIR4103-7	.9375	1.188	.929	.798	.438	Ø1-1/4 x 7/8 4140 Q&T RND.BAR		
MS14101-8	RBIR4101-8	1.000	1.250	.992	.836	.500	Ø1-1/4 x 7/8 4140 Q&T RND.BAR		
MS14103-8	RBIR4103-8	1.000	1.250	.992	.860	.500	Ø1-1/4 x 7/8 4140 Q&T RND.BAR		
MS14101-9	RBIR4101-9	1.0937	1.344	1.086	.930	.563	Ø1-3/8 x 7/8 4140 Q&T RND.BAR		
MS14103-9	RBIR4103-9	1.125	1.375	1.117	.985	.563	Ø1-3/8 x 7/8 4140 Q&T RND.BAR		
MS14101-10	RBIR4101-10	1.1875	1.438	1.179	1.023	.626	Ø1-1/2 x 7/8 4140 Q&T RND.BAR		
MS14103-10	RBIR4103-10	1.1875	1.438	1.179	1.047	.626	Ø1-1/2 x 7/8 4140 Q&T RND.BAR		

® RED BARN	N MACHINE				
PORTABLE BEAR & REMOVAL					
DWG NO5 ALIGNME	ENT SEAT 3A				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: PERRITT				
TOLERANCES ON:	APPROVED 2 Weil				
DECIMALS XXX ± .005 FRACTIONS + 1/22	HEAT TREAT				
.XX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ±.5°	FINISH BLACK DXIDE				
UNLESS OTHERWISE SPECIFIED	USED ON BEARING				
1. BREAK ALL SHARP EDGES	SEE CHART				
.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING					
SCALE NTS DATE 1-2	1-08 SHEET 4 of 5				



BEARING #	TOOL#	BRG. OD.	ØA +.000 004	ØB +.005 005	ØC +.003 000	ØD +.003 003	ØE +.003 003	MATERIAL
MS14103-5	RBIR4103-5	.6875	.679	.595	.313	.648	.555	Ø3/4 x 1 4140 Q&T RND.BAR
MS14103-6	RBIR4103-6	.8125	.804	.675	.375	.766	.635	Ø7/8 x 1 4140 Q&T RND.BAR
MS14101-7	RBIR4101-7	.9062	.898	.766	.438	.866	.726	Ø1 x 1 4140 Q&T RND.BAR
MS14103-7	RBIR4103-7	.9375	.929	.797	.438	.898	.757	Ø1 x 1 4140 Q&T RND.BAR
MS14101-8	RBIR4101-8	1.000	.992	.836	.500	.960	.796	Ø1 x 1 4140 Q&T RND.BAR
MS14103-8	RBIR4103-8	1.000	.992	.860	.500	.960	.820	Ø1 x 1 4140 Q&T RND.BAR
MS14101-9	RBIR4101-9	1.0937	1.086	.930	.563	1.055	.890	Ø1-1/8 x 1 4140 Q&T RND.BAR
MS14103-9	RBIR4103-9	1.125	1.117	.985	.563	1.085	.945	Ø1-1/8 x 1 4140 Q&T RND.BAR
MS14101-10	RBIR4101-10	1.1875	1.179	1.023	.625	1.148	.983	Ø1-1/4 x 1 4140 Q&T RND.BAR
MS14103-10	RBIR4103-10	1.1875	1.179	1.047	.625	1.148	1.007	Ø1-1/4 x 1 4140 Q&T RND.BAR

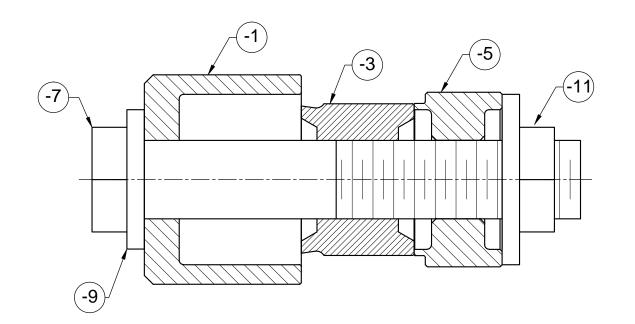




BEARING #	TOOL#	ØA +.010 010	ØB +.005 005	ØC +.005 000	D +.010 010	+.010 010	MATERIAL
MS14103-5	RBIR4103-5	1.250	.788	.313	.875	.625	Ø1-1/4 x 1 1018 RND. BAR
MS14103-6	RBIR4103-6	1.375	.913	.375	.875	.625	Ø1-3/8 x 1 1018 RND. BAR
MS14101-7	RBIR4101-7	1.375	1.000	.438	.875	.625	Ø1-3/8 x 1 1018 RND. BAR
MS14103-7	RBIR4103-7	1.375	1.038	.438	1.000	.750	Ø1-3/8 x 1-1/8 1018 RND. BAR
MS14101-8	RBIR4101-8	1.475	1.100	.500	.938	.688	Ø1-1/2 x 1-1/16 1018 RND. BAR
MS14103-8	RBIR4103-8	1.475	1.100	.500	1.063	.813	Ø1-1/2 x 1-3/16 1018 RND. BAR
MS14101-9	RBIR4101-9	1.563	1.188	.563	1.000	.750	Ø1-5/8x 1-1/8 1018 RND. BAR
MS14103-9	RBIR4103-9	1.600	1.225	.563	1.125	.875	Ø1-5/8x 1-1/4 1018 RND. BAR
MS14101-10	RBIR4101-10	1.663	1.288	.625	1.063	.813	Ø1-3/4 x 1-3/16 1018 RND. BAR
MS14103-10	RBIR4103-10	1.663	1.288	.625	1.188	.938	Ø1-3/4 x 1-5/16 1018 RND. BAR

RED BARN	N MACHINE			
PORTABLE BEAR & REMOVAL				
DWG NO1 REC	EIVER 3A			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: PERRITT			
TOLERANCES ON:	APPROVED D Weil			
DECIMALS XXX + .005	HEAT TREAT			
.XX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ±.5°	FINISH BLACK DXIDE			
UNLESS OTHERWISE SPECIFIED	USED ON BEARING			
1. BREAK ALL SHARP EDGES	SEE CHART			
.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING				
SCALE NTS DATE 1-2	1-08 SHEET 2 of 5			

I		REVISIONS			
ſ	REV	DESCRIPTION	DATE	INITIAL	APPROVED
	1	ADDED ALL THE MISSING INFORMATION TO COMPLETE TOOLS NAMED. ADDED BOLT & NUT DRAWING & CORRECTED -1 INFORMATION.	9/12/08	WP	
ſ	2	ADDED TOOL KIR4103-5. ALSO REMOVED ENGRAVING FROM -3.	12-9-08	WP	
	3	ADDED TOOL IR4103-6 FOR BEARINGS MS4101-6 & MS4103-6. ALSO ADDED DIM ØE TO PART -3 REMOVER, WAS ØB.	2/24/09	WP	
	ЗА	CH'D T/N WAS KIR*** IS RBIR***. ALL TOOLS ALL SHEETS.	3/19/13	ВІМ	RW



BEARING #	BEARING #	TOOL#
	MS14103-5	RBIR4103-5
MS14101-6	MS14103-6	RBIR4103-6
	MS14101-7	RBIR4101-7
206-031-594-001&-003	MS14103-7	RBIR4103-7
	MS14101-8	RBIR4101-8
	MS14103-8	RBIR4103-8
	MS14101-9	RBIR4101-9
	MS14103-9	RBIR4103-9
	MS14101-10	RBIR4101-10
	MS14103-10	RBIR4103-10

ASSY QTY	ASSY QTY	В/О	PART#	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.
			-1	1	RECEIVER		SEE CHART	2
			-3	1	REMOVER / INSTALLER		SEE CHART	3
			-5	1	ALGINMENT SEAT		SEE CHART	4
		B/O	0 -7 1 HEX HEAD CAP SCREW		HEX HEAD CAP SCREW		SEE CHART	5
		B/O	-9	SEE CHART	MACHINE WASHER		SEE CHART	5
		B/O	-11	1	NUT		SEE CHART	5
	ASSY #							

® RED BARN MACHINE

PORTABLE BEARING INSTALL & REMOVAL TOOLS

DWG NO. No. I

DRAWN BY:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ±.5° UNLESS OTHERWISE SPECIFIED

1. BREAK ALL SHARP EDGES
.015 x 45° PR .015 R

2. DIMENSIONAL LIMITS APPLY AFTER PLATING

TITLE

PERRITT APPROVED D Weil HEAT TREAT FINISH SPEC BLACK DXIDE USED ON BEARING SEE CHART

DATE 1-21-08 SHEET 1 of 5 NTS

	REVISIONS			
REV	DESCRIPTION	DATE	INITIAL	APPR
_		-	-	_

WOT APPROVED FOR PRODUCTION RED BARN MACHINE

Ā	SSY ASS	Y B/C	PART#	UNIT	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.	- mue — —	
Γ			-1	1	RND	6061	Ø8-1/4 x 3-7/8	2	DIVID NO	T 50
									DWG NO. — —	RE
									UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT	
									DIMENSIONS ARE IN INCHES TOLERANCES ON: APPROVED APPROVED	
									DECIMALS	
									.∧ ±.1	
									1. BREAK ALL SHARP EDGES	
									.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
Γ	ASS #	SY							$\begin{bmatrix} scale & NTS \end{bmatrix}$ date $8-15-07$ $\begin{bmatrix} sheet & 1 & c \end{bmatrix}$	f:

	REVISIONS		
REV	DESCRIPTION	DATE	APPROVED

NOT APPROVED FOR PRODUCTION

		PART	# QTY	DESCRIPTION			
		-1	1				
	DRAWN BY: PERRITT				\Box	MACHIN	\Box
	CHECKED		(RB)	スピリ	BAKIN	MACHII	$I \square$
	TREAT FINISH SPEC		TITLE				
USED ON MODEL	? DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS						
	.XXX ± .005 FRACTIONS ± 1 .XX ± .01 ANGLES ± .5 UNLESS OTHERWISE SPECIFIED	5°	DWG NO.		PART	#	REV.
	1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SCALE	NTS	DATE 1-28-0	06 SHEET 1 of	1